AMENDMENTS TO THE CLAIMS

1	1. (Cancelled)
1	2. (Cancelled)
1	3. (Currently Amended) [[A]]The method as recited in Claim [[2]]59, wherein:
2	the first category is one of a products category, a services category, an activities category
3	and a document category; and
4	the second category is a different one of the products category, the services category, the
5	activities category and the document category.
1	4. (Cancelled)
1	5. (Currently Amended) [[A]]The method as recited in Claim <u>58</u> [[4]], further comprising
2	the step of processing some data of the enterprise data based on the first concept and the
3	second relationship.
1	6. (Currently Amended) [[A]]The method as recited in Claim 58[[4]], wherein the second
2	relationship is of a second relationship type, and wherein the second relationship type
3	relates three or more a number of concepts of the plurality of atomic concepts associated
4	with the first category that differs in number from the at least two concepts.
1	7. (Currently Amended) [[A]]The method as recited in Claim <u>58</u> [[4]], <u>wherein the second</u>
2	relationship is of a second relationship type, and wherein the second relationship type
3	relates at least one concept of the plurality of atomic concepts associated with the first
4	category to at least another concept of the plurality of atomic concepts associated with
5	[[a]] the second category of the plurality of categories.

1	8. (Currently Amended) The method as recited in Claim <u>58</u> [[4]], wherein concepts in the
2	first category are represented as nodes connected by relationships of [[the]] a first
3	relationship type along one or more branches of a first type hierarchy to a first root node
4	representing a first root concept for the first category[[:]].
1	9. (Original) The method as recited in Claim 8, wherein the first root node has a "child of"
2	relationship to an enterprise data root node representing an enterprise data root concept.
1	10. (Currently Amended) The method as recited in Claim 9, wherein a second root node
2	corresponding to a second root concept for [[a]]the second category of the plurality of
3	categories has a "child of" relationship to the enterprise data root node.
1	11. (Currently Amended) The method as recited in Claim <u>58</u> [[4]], wherein an association
2	among the first concept and the first relationship and the second relationship is provided
3	by a relational database.
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l	12. (Currently Amended) The method as recited in Claim <u>58</u> [[4]], wherein the first concept is
2	stored as a record in a first data store table, said record including a concept name field for
3	storing a name of the first concept.
l	13. (Original) The method as recited in Claim 12, wherein every record in the first data store
2	table stores a name of a concept of the plurality of atomic concepts associated with the
3	first category.
l	14. (Currently Amended) The method as recited in Claim <u>58</u> [[4]], wherein the first
2	relationship is stored as a first unique record in a relationship data store table, said first
3	unique record including a relationship type field for storing a name of a first relationship
1	type.

15. (Original) The method as recited in Claim 14, wherein a name of the first concept is stored 1 2 in a participant field in a record in a relationship participant data store table, said record 3 including a relationship identification field for storing data indicating the first unique 4 record in the relationship data store table. The method as recited in Claim 14, wherein the second 1 16. (Currently Amended) 2 relationship is stored as a second unique record in the relationship data store table, said 3 second unique record storing a name of [[the]]a corresponding second relationship type in 4 the relationship type field. 1 17. (Original) The method as recited in Claim 16, wherein a name of the first concept is stored 2 in a participant field in a first record in a relationship participant data store table, said first 3 record including a relationship identification field for storing data indicating the second 4 unique record in the relationship data store table. 1 18. (Original) The method as recited in Claim 16, wherein a name of the first concept is stored 2 in a participant field in a first record in a relationship participant data store table, said first 3 record including a relationship identification field for storing data indicating the first 4 unique record in the relationship data store table. 1 19. (Original) The method as recited in Claim 18, wherein the name of the first concept is stored 2 in the participant field in a second record in the relationship participant data store table, 3 said second record storing data in the relationship identification field for indicating the 4 second unique record in the relationship data store table. 1 20. (Original) The method as recited in Claim 15, wherein a name of a role for the first concept 2 is stored in a role field in the record in the relationship participant data store table.

1	21. (Currently Amended) The method as recited in Claim <u>58[[4]]</u> , wherein one or more
2	attributes of at least one of the first concept, [[and]] the first relationship, and the second
3	relationship are stored in an attributes data store table.
1	22. (Currently Amended) The method as recited in Claim <u>58</u> [[4]], further comprising
2	generating and storing a rule associated with at least one of \underline{a} [[the]] first relationship
3	type, and a [[the]] second relationship type, and a category of the plurality of
4	categories .
1	23. (Currently Amended) The method as recited in Claim 22, wherein the rule constrains a
1 2	23. (Currently Amended) The method as recited in Claim 22, wherein the rule constrains a second given concept which may be related to the first concept by the at least one of the
3	first relationship type, and the second relationship type, and the category.
3	mist relationship type, and the second relationship type, and the eategory.
1	24. (Original) The method as recited in Claim 22, wherein the rule is stored in a relational
2	database table.
1	25. (Currently Amended) A method of processing enterprise data generated by an enterprise,
2	the method comprising the <u>machine-implemented</u> steps of:
3	generating a plurality of categories that encompass the enterprise data;
4	generating a plurality of atomic concepts within the enterprise data;
5	generating a first relationship type to relate at least two concepts of the plurality of
6	atomic concepts associated with a first category of the plurality of categories;
7	generating a second relationship type, wherein the second relationship type relates at least
8	one concept of the plurality of atomic concepts associated with the first category
9	to at least another concept of the plurality of atomic concepts associated with a
10	second category of the plurality of categories; to relate at least one of the at least
11	two concepts related by the first relationship type to at least one different concept
12	of the plurality of atomic concepts;

13	storing a first concept of the plurality of atomic concepts, said first concept associated
14	with the first category;
15	generating a first relationship of the first relationship type with the first concept and a
16	second concept, wherein the second concept is associated with the first category;
17	generating a second relationship of the second relationship type with the first concept and
18	a third concept, wherein the third concept is associated with the second category;
19	and
20	storing the first relationship and the second relationship in association with the first
21	concept.
1	26. (Currently Amended) [[A]]The method as recited in Claim 25, further comprising the
2	step of processing some data of the enterprise data based on the first concept and the
3	second relationship.
1	27. (Currently Amended) [[A]]The method as recited in Claim 25, wherein the second
2	relationship type relates three or more a number of concepts of the plurality of atomic
3	concepts associated with the first category that differs in number from the at least two
4	concepts .
1	28. (Cancelled)
1	29. (Currently Amended) The method as recited in Claim 25, wherein concepts in the first
2	category are represented as nodes connected by relationships of the first relationship type
3	along one or more branches of a first type hierarchy to a first root node representing a
4	first root concept for the first category[[:]].
	3. 3.6. 312
1	30. (Original) The method as recited in Claim 29, wherein the first root node has a "child of"
2	relationship to an enterprise data root node representing an enterprise data root concept.
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1	31. (Currently Amended) The method as recited in Claim 30, wherein a second root node
2	corresponding to a second root concept for [[a]]the second category of the plurality of
3	categories has a "child of" relationship to the enterprise data root node.
1	32. (Currently Amended) The method as recited in Claim 25, wherein an association among
2	the first concept, [[and]] the first relationship and the second relationship is provided by
3	a relational database.
1	33. (Original) The method as recited in Claim 25, said step of storing the first concept further
2	comprising:
3	storing the first concept as a record in a first data store table; and
4	storing a name of the first concept in a concept name field in said record.
1	34. (Original) The method as recited in Claim 33, wherein every record in the first data store
2	table stores a name of a concept of the plurality of atomic concepts associated with the
3	first category.
1	35. (Original) The method as recited in Claim 25, said step of storing the first relationship and
2	the second relationship further comprising:
3	storing the first relationship as a first unique record in a relationship data store table; and
4	storing a name of the first relationship type in a relationship type field in said first unique
5	record.
1	36. (Original) The method as recited in Claim 35, said step of storing the first relationship and
2	the second relationship further comprising:
3	storing a name of the first concept in a participant field in a record in a relationship
4	participant data store table; and

5	storing in a relationship identification field in said record in the relationship participant
5	data store table, data indicating the first unique record in the relationship data
7	store table.
l	37. (Original) The method as recited in Claim 35, said step of storing the first relationship and
2	the second relationship further comprising:
3	storing the second relationship as a second unique record in the relationship data store
1	table; and
5	storing a name of the second relationship type in the relationship type field in said second unique record
l	38. (Original) The method as recited in Claim 37, said step of storing the first relationship and
2	the second relationship further comprising:
3	storing a name of the first concept in a participant field in a first record in a relationship
1	participant data store table; and
5	storing in a relationship identification field in said first record in the relationship
5	participant data store table, data indicating the second unique record in the
7	relationship data store table.
l	39. (Original) The method as recited in Claim 37, said step of storing the first relationship and
2	the second relationship further comprising:
3	storing a name of the first concept in a participant field in a first record in a relationship
1	participant data store table; and
5	storing in a relationship identification field in said first record in the relationship
5	participant data store table, data indicating the first unique record in the
7	relationship data store table.
l	40. (Original) The method as recited in Claim 39, said step of storing the first relationship and
2	the second relationship further comprising:

3 storing the name of the first concept in the participant field in a second record in the 4 relationship participant data store table; and 5 storing in the relationship identification field in said second record in the relationship participant data store table, data indicating the second unique record in the 6 7 relationship data store table. 1 41. (Original) The method as recited in Claim 36, said step of storing the first relationship and 2 the second relationship further comprising storing a name of a role for the first concept in a role 3 field in the record in the relationship participant data store table. 1 42. (Original) The method as recited in Claim 25, said step of storing the first relationship and 2 the second relationship further comprising storing one or more attributes of at least one of the 3 first concept and the first relationship and the second relationship in an attributes data store table. 1 43. (Original) The method as recited in Claim 25, further comprising generating and storing a 2 rule associated with at least one of the first relationship type and the second relationship type and 3 a category of the plurality of categories. 1 44. (Currently Amended) The method as recited in Claim 43, wherein the rule constrains a 2 given [[second]] concept which may be related to the first concept by the at least one of the first 3 relationship type and the second relationship type. 1 45. (Original) The method as recited in Claim 43, said step of generating and storing the rule 2 further comprising storing the rule in a relational database table. 1 46. (Cancelled) 47. (Cancelled) 1

1 48. (Cancelled)

51. (Cancelled)

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1	49. (Currently Amended) A computer-readable medium carrying one or more sequences of			
2	instructions for processing enterprise data generated by an enterprise, which instructions, when			
3	executed by one or more processors, cause the one or more processors to carry out the steps of:			
4	generating a plurality of categories that encompass the enterprise data;			
5	generating a plurality of atomic concepts within the enterprise data;			
6	generating a first relationship type to relate at least two concepts of the plurality of			
7	atomic concepts associated with a first category of the plurality of categories;			
8	generating a second relationship type, wherein the second relationship type relates at lea			
9	one concept of the plurality of atomic concepts associated with the first category			
10	to at least another concept of the plurality of atomic concepts associated with a			
11	second category of the plurality of categories; to relate at least one of the at least			
12	two concepts related by the first relationship type to at least one different concep			
13	of the plurality of atomic concepts;			
14	storing a first concept of the plurality of atomic concepts, said first concept associated			
15	with the first category;			
16	generating a first relationship of the first relationship type with the first concept and a			
17	second concept, wherein the second concept is associated with the first category;			
18	generating a second relationship of the second relationship type with the first concept an			
19	a third concept, wherein the third concept is associated with the second category;			
20	and			
21	storing the first relationship and the second relationship in association with the first			
22	concept.			
1	50. (Cancelled)			

1 52. (Cancelled)

1	53. (Currently Amended) A system for processing enterprise data generated by an enterprise
2	comprising
3	a means for generating a plurality of categories that encompass the enterprise data;
4	a means for generating a plurality of atomic concepts within the enterprise data;
5	a means for generating a first relationship type to relate at least two concepts of the
6	plurality of atomic concepts associated with a first category of the plurality of
7	categories;
8	a means for generating a second relationship type, wherein the second relationship type
9	relates at least one concept of the plurality of atomic concepts associated with the
10	first category to at least another concept of the plurality of atomic concepts
11	associated with a second category of the plurality of categories; to relate at least
12	one of the at least two concepts related by the first relationship type to at least on
13	different concept of the plurality of atomic concepts;
14	a means for storing a first concept of the plurality of atomic concepts, said first concept
15	associated with the first category;
16	a means for generating a first relationship of the first relationship type with the first
17	concept and a second concept, wherein the second concept is associated with the
18	first category;
19	a means for generating a second relationship of the second relationship type with the firs
20	concept and a third concept, wherein the third concept is associated with the
21	second category; and
22	a means for storing the first relationship and the second relationship in association with
23	the first concept.
1	54. (Cancelled)
1	55. (Cancelled)

1 56. (Cancelled)

1	1 57. (Currently Amended) A system for	processing enterprise data generated by an enterprise,
2	2 comprising:	
3	a computer readable persistent stor	age medium; and
4	4 a processor configured for	
5	5 generating a plurality of cat	egories that encompass the enterprise data,
6	6 generating a plurality of ato	mic concepts within the enterprise data,
7	7 generating a first relationsh	ip type to relate at least two concepts of the plurality
8	8 of atomic concepts a	associated with a first category of the plurality of
9	9 categories,	
10	0 generating a second relation	ship type , wherein the second relationship type
11	1 relates at least one c	oncept of the plurality of atomic concepts associated
12	2 with the first catego	ry to at least another concept of the plurality of atomic
13	3 <u>concepts associated</u>	with a second category of the plurality of categories;
14	4 to relate at least one	of the at least two concepts related by the first
15	5 relationship type to	at least one different concept of the plurality of atomic
16	6 concepts,	
17	7 generating a first relationsh	ip of the first relationship type with the first concept
18	8 second concept, who	erein the second concept is associated with the first
19	9 <u>category;[[,]]</u>	
20	generating a second relation	ship of the second relationship type with the first
21	1 concept and a third	concept, wherein the third concept is associated with
22	2 <u>the second category</u>	[[,]]
23	3 storing on the persistent sto	rage medium [[a]]the first concept of the plurality of
24	4 atomic concepts, sai	d-first concept associated with the first category; and
25	5 storing on the persistent sto	rage medium the first relationship and the second
26	6 relationship in associ	iation with the first concept.

1	58. (New)	A method of processing data, the method comprising the machine-implemented	
2	2 steps of:		
3	storing a first relationship between a first concept and a second concept, wherein:		
4		the first concept and the second concept are each one of a plurality of atomic	
5		concepts;	
6		the first concept and the second concept are in a first category of concepts; and	
7		the first relationship is part of a first concept graph corresponding to the first	
8		category of concepts; and	
9	storii	ng a second relationship between the first concept and a third concept, wherein:	
10		the third concept is one of the plurality of atomic concepts;	
11		the first concept and the third concept are in a second category of concepts; and	
12		the second relationship is part of a second concept graph corresponding to the	
13		second category of concepts;	
14	wher	ein the first concept, the second concept, and third concept are each different	
15		concepts; the first category is distinct from the second category; and the first	
16		concept graph is distinct from the second concept graph.	
1	59. (New)	The method of Claim 58, wherein the method further comprises:	
2	recei	ving a request for information related to the second concept;	
3	sendi	ng a response to the request, wherein the response comprises information related to	
4		the third concept and the response is generated based on the first relationship, the	
5		second relationship, and the third concept.	
6	60. (New)	A computer-readable medium carrying one or more sequences of instructions for	
7	processing d	ata which instructions, when executed by one or more processors, cause the one or	
8	more processors to carry out the steps of:		
9	storii	ng a first relationship between a first concept and a second concept, wherein:	
10		the first concept and the second concept are each one of a plurality of atomic	
11	concepts;		

12		the first concept and the second concept are in a first category of concepts; and		
13	the first relationship is part of a first concept graph corresponding to the first			
14	category of concepts; and			
15	storii	ng a second relationship between the first concept and a third concept, wherein:		
16		the third concept is one of the plurality of atomic concepts;		
17		the first concept and the third concept are in a second category of concepts; and		
18		the second relationship is part of a second concept graph corresponding to the		
19		second category of concepts;		
20		wherein the first concept, the second concept, and third concept are each different		
21		concepts; the first category is distinct from the second category; and the		
22		first concept graph is distinct from the second concept graph.		
1	61. (New)	The computer-readable medium of claim 60, wherein the computer-readable		
2	medium furt	her comprises one or more sequences of instructions, which instructions, when		
3	executed by	one or more processors, cause the one or more processors to carry out the step of:		
4	recei	ving a request for information related to the second concept;		
5	send	ing a response to the request, wherein the response comprises information related to		
6		the third concept and the response is generated based on the first relationship, the		
7		second relationship, and the third concept.		
8	62. (New)	A system for processing data, comprising:		
9	mear	as for storing a first relationship between a first concept and a second concept,		
10		wherein:		
11		the first concept and the second concept are each one of a plurality of atomic		
12		concepts;		
13		the first concept and the second concept are in a first category of concepts; and		
14		the first relationship is part of a first concept graph corresponding to the first		
15		category of concepts; and		
16	mear	as for storing a second relationship between the first concept and a third concept,		
17		wherein:		

18		the third concept is one of the plurality of atomic concepts;
19		the first concept and the third concept are in a second category of concepts; and
20		the second relationship is part of a second concept graph corresponding to the
21		second category of concepts;
22	wher	ein the first concept, the second concept, and third concept are each different
23		concepts; the first category is distinct from the second category; and the first
24		concept graph is distinct from the second concept graph.
1	63. (New)	The system of Claim 62, further comprising:
2	mean	s for receiving a request for information related to the second concept;
3	mean	s for sending a response to the request, wherein the response comprises information
4		related to the third concept and the response is generated based on the first
5		relationship, the second relationship, and the third concept.
1	64. (New)	A system for responding for processing data, the system comprising:
2	a data	abase for storing concepts and relationships among concepts; and
3	a pro	cessor configured as an applications programming interface for responding to the
4		requests for information related to one or more concepts,
5	wher	ein,
6	storir	ng a first relationship between a first concept and a second concept, wherein:
7		the first concept and the second concept are each one of a plurality of atomic
8		concepts;
9		the first concept and the second concept are in a first category of concepts; and
10		the first relationship is part of a first concept graph corresponding to the first
11		category of concepts; and
12	storir	ng a second relationship between the first concept and a third concept, wherein:
13		the third concept is one of the plurality of atomic concepts;
14		the first concept and the third concept are in a second category of concepts; and
15		the second relationship is part of a second concept graph corresponding to the
16		second category of concepts;

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17		wherein the first concept, the second concept, and third concept are each different
18		concepts; the first category is distinct from the second category; and the
19		first concept graph is distinct from the second concept graph.
1	65. (New)	The system of Claim 64, the system further comprising:
2	receiving a request for information related to the second concept;	
3	sending a response to the request, wherein the response comprises information related to	
4	the third concept and the response is generated based on the first relationship, the	
5		second relationship, and the third concept.